

## FIGURES AND SEQUENCES (600-1-285P)

(locations of polymorphisms or sites of polymorphisms appear in bold underline)

FIGURE 1 AND SEQ ID NO:1

### wild-type hKOR

```
1 atggactccc cgatccagat cttccgcggg gagccgggccc ctacctgcgc cccgagcgcc
61 tgcctgcccc ccaacagcag cgcttggttt cccggctggg ccgagcccga cagcaacggc
121 agcgccggct cggaggacgc gcagctggag cccgcgcaca tctccccggc catcccggtc
181 atcatcacgg cggctctactc cgtagtggtc gtcgtgggct tgggtgggcaa ctcgctggtc
241 atgttcgtga tcatccgata cacaagatg aagacagcaa ccaacattta catatttaac
301 ctggcttttg cagatgcttt agttactaca accatgccct ttcagagtac ggtctacttg
361 atgaattcct ggcttttttg ggatgtgctg tgcaagatag taatttccat tgattactac
421 aacatgttca ccagcatctt caccttgacc atgatgagcg tggaccgcta cattgccgtg
481 tgccaccccg tgaaggcttt ggacttccgc acacccttga aggcaaagat catcaatata
541 tgcattctggc tgctgtcgtc atctgttggc atctctgcaa tagtccttgg aggcacaaaa
601 gtcaggggaag acgtcgatgt cattgagtgc tccttgagc tcccagatga tgactactcc
661 tgggtgggacc tcttcatgaa gatctgcgtc ttcattcttg ccttcgtgat ccctgtcctc
721 atcatcatcg tctgtctacac cctgatgata ctgcgtctca agagcgtccg gctcctttct
781 ggctcccgag agaaagatcg caacctgcgt aggatcacca gactggctct ggtgggtggg
841 gcaagtcttcg tgcgtctgctg gactcccatt cacatattca tcctgggtgga ggctctgggg
901 agcacctccc acagcacagc tgctctctcc agctattact tctgcatcgc cttaggctat
961 accaacagta gcctgaatcc cattctctac gcctttcttg atgaaaagt caagcgggtg
1021 ttccgggact tctgctttcc actgaagatg aggatggagc ggcagagcac tagcagagtc
1081 cgaaatacag ttcaggatcc tgcttacctg agggacatcg atgggatgaa taaaccagta
1141 tgactagtcg tgga
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FIGURE 2 AND SEQ ID NO:2

### C852T polymorphism of hKOR

```
1 atggactccc cgatccagat cttccgcggg gagccgggccc ctacctgcgc cccgagcgcc
61 tgcctgcccc ccaacagcag cgcttggttt cccggctggg ccgagcccga cagcaacggc
121 agcgccggct cggaggacgc gcagctggag cccgcgcaca tctccccggc catcccggtc
181 atcatcacgg cggctctactc cgtagtggtc gtcgtgggct tgggtgggcaa ctcgctggtc
241 atgttcgtga tcatccgata cacaagatg aagacagcaa ccaacattta catatttaac
301 ctggcttttg cagatgcttt agttactaca accatgccct ttcagagtac ggtctacttg
361 atgaattcct ggcttttttg ggatgtgctg tgcaagatag taatttccat tgattactac
421 aacatgttca ccagcatctt caccttgacc atgatgagcg tggaccgcta cattgccgtg
481 tgccaccccg tgaaggcttt ggacttccgc acacccttga aggcaaagat catcaatata
541 tgcattctggc tgctgtcgtc atctgttggc atctctgcaa tagtccttgg aggcacaaaa
601 gtcaggggaag acgtcgatgt cattgagtgc tccttgagc tcccagatga tgactactcc
661 tgggtgggacc tcttcatgaa gatctgcgtc ttcattcttg ccttcgtgat ccctgtcctc
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1 721 atcatcatcg tctgctacac cctgatgata ctgcgtctca agagcgccg gctcctttct  
 2 781 ggctcccgag agaaagatcg caacctgcgt aggatcacca gactggctct ggtggtggtg  
 3 841 gcagtcctcg tctgtctgtg gactccatt cacatattca tctggtgga ggctctgggg  
 4 901 agcacctccc acagcacagc tgctctctcc agctattact tctgcatggc cttaggctat  
 5 961 accaacagta gcctgaatcc cattctctac gcctttcttg atgaaaaatt caagcgggtg  
 6 1021 ttccgggact tctgctttcc actgaagatg aggatggagc ggagagcac tagcagagtc  
 7 1081 cgaaatacag ttcaggatcc tgcttacctg agggacatcg atgggatgaa taaaccagta  
 8 1141 tgactagtcg tgga

FIGURE 3 AND SEQ ID NO:3

C948T polymorphism of hKOR

1 atggactccc cgatccagat cttccgcggg gagccgggccc ctacctgcgc cccgagcgcc  
 61 tgcttgcgcc ccaacagcag cgcttggttt cccggctggg ccgagcccgag cagcaacggc  
 121 agcgccggct cggaggacgc gcagctggag cccgcgcaca tctccccggc catcccggtc  
 181 atcatcacgg cggctctactc cgtagtggtc gtcgtgggct tgggtgggcaa ctgctgggtc  
 241 atgttcgtga tcatccgata cacaagatg aagacagcaa ccaacattta catatttaac  
 301 ctggcttttg cagatgcttt agttactaca accatgccct ttcagagtac ggtctacttg  
 361 atgaattcct ggcttttttg ggatgtgctg tgcaagatag taatttccat tgattactac  
 421 aacatgttca ccagcatctt caccttgacc atgatgagcg tggaccgcta cattgccgtg  
 481 tgccaccccg tgaaggcttt ggacttccgc acacccttga aggcaaagat catcaatata  
 541 tgcattctggc tgctgtcgtc atctgttggc atctctgcaa tagtccttgg aggcacaaa  
 601 gtcagggaag acgtcgatgt cattgagtgc tccttgcatg tcccagatga tgactactcc  
 661 tgggtgggacc tcttcatgaa gatctgcgtc ttcattcttg ccttcgtgat ccctgtcctc  
 721 atcatcatcg tctgctacac cctgatgata ctgcgtctca agagcgccg gctcctttct  
 781 ggctcccgag agaaagatcg caacctgcgt aggatcacca gactggctct ggtggtggtg  
 841 gcagtcctcg tctgtctgtg gactccatt cacatattca tctggtgga ggctctgggg  
 901 agcacctccc acagcacagc tgctctctcc agctattact tctgcatggc cttaggctat  
 961 accaacagta gcctgaatcc cattctctac gcctttcttg atgaaaaatt caagcgggtg  
 1021 ttccgggact tctgctttcc actgaagatg aggatggagc ggagagcac tagcagagtc  
 1081 cgaaatacag ttcaggatcc tgcttacctg agggacatcg atgggatgaa taaaccagta  
 1141 tgactagtcg tgga

FIGURE 4 AND SEQ ID NO:4

C1008T polymorphism of hKOR

1 atggactccc cgatccagat cttccgcggg gagccgggccc ctacctgcgc cccgagcgcc  
 61 tgcttgcgcc ccaacagcag cgcttggttt cccggctggg ccgagcccgag cagcaacggc  
 121 agcgccggct cggaggacgc gcagctggag cccgcgcaca tctccccggc catcccggtc  
 181 atcatcacgg cggctctactc cgtagtggtc gtcgtgggct tgggtgggcaa ctgctgggtc  
 241 atgttcgtga tcatccgata cacaagatg aagacagcaa ccaacattta catatttaac  
 301 ctggcttttg cagatgcttt agttactaca accatgccct ttcagagtac ggtctacttg  
 361 atgaattcct ggcttttttg ggatgtgctg tgcaagatag taatttccat tgattactac  
 421 aacatgttca ccagcatctt caccttgacc atgatgagcg tggaccgcta cattgccgtg

1 481 tgccaccccg tgaaggcttt ggacttccgc acacccttga aggcaaagat catcaatata  
 2 541 tgcacatggc tgctgtcgtc atctgttggc atctctgcaa tagtccttgg aggcacccaaa  
 3 601 gtcaggggaag acgtcgatgt cattgagtgc tccttgacagt tcccagatga tgactactcc  
 4 661 tgggtgggacc tcttcatgaa gatctgcgtc ttcattcttg ccttcgtgat ccctgtcctc  
 5 721 atcatcatcg tctgctacac cctgatgatc ctgcgtctca agagcgtccg gctcctttct  
 6 781 ggctcccgag agaaagatcg caacctgcgt aggatcacca gactggtcct ggtgggtggtg  
 7 841 gcagtcttcg tggtctgctg gactccatt cacatattca tcctgggtgga ggctctgggg  
 8 901 agcacctccc acagcacagc tgctctctcc agctattact tctgcatggc cttaggctat  
 9 961 accaacagta gcctgaatcc cattctctac gcctttcttg atgaaatt caagcgggtg  
 10 1021 ttccgggact tctgctttcc actgaagatg aggatggagc ggagagcac tagcagagtc  
 11 1081 cgaaatacag ttcaggatcc tgcttacctg agggacatcg atgggatgaa taaaccagta  
 12 1141 tgactagtcg tgga

FIGURE 5 AND SEQ ID NO:5

G36T polymorphism of hKOR

1 atggactccc cgatccagat cttccgcggg gagcctggcc ctacctgcgc cccgagcgcc  
 61 tgctgcccc ccaacagcag cgctgggtt cccggctggg ccgagccga cagcaacggc  
 121 agcgccggct cggaggacgc gcagctggag cccgcgcaca tctccccggc catcccggtc  
 181 atcatcacgg cggctctactc cgtagtgttc gtcgtgggct tgggtgggcaa ctgcgtggtc  
 241 atgttcgtga tcatccgata cacaagatg aagacagcaa ccaacattta catatttaac  
 301 ctggcttttg cagatgcttt agttactaca accatgccct ttcagagtac ggtctacttg  
 361 atgaattcct ggcttttttg ggatgtgctg tgcaagatag taatttccat tgattactac  
 421 aacatgttca ccagcatctt caccttgacc atgatgagcg tggaccgcta cattgccgtg  
 481 tgccaccccg tgaaggcttt ggacttccgc acacccttga aggcaaagat catcaatata  
 541 tgcacatggc tgctgtcgtc atctgttggc atctctgcaa tagtccttgg aggcacccaaa  
 601 gtcaggggaag acgtcgatgt cattgagtgc tccttgacagt tcccagatga tgactactcc  
 661 tgggtgggacc tcttcatgaa gatctgcgtc ttcattcttg ccttcgtgat ccctgtcctc  
 721 atcatcatcg tctgctacac cctgatgatc ctgcgtctca agagcgtccg gctcctttct  
 781 ggctcccgag agaaagatcg caacctgcgt aggatcacca gactggtcct ggtgggtggtg  
 841 gcagtcttcg tggtctgctg gactccatt cacatattca tcctgggtgga ggctctgggg  
 901 agcacctccc acagcacagc tgctctctcc agctattact tctgcatggc cttaggctat  
 961 accaacagta gcctgaatcc cattctctac gcctttcttg atgaaagt caagcgggtg  
 1021 ttccgggact tctgctttcc actgaagatg aggatggagc ggagagcac tagcagagtc  
 1081 cgaaatacag ttcaggatcc tgcttacctg agggacatcg atgggatgaa taaaccagta  
 1141 tgactagtcg tgga

FIGURE 6 AND SEQ ID NO:6

A843G polymorphism of hKOR

1 atggactccc cgatccagat cttccgcggg gagccaggcc ctacctgcgc cccgagcgcc  
 61 tgctgcccc ccaacagcag cgctgggtt cccggctggg ccgagccga cagcaacggc  
 121 agcgccggct cggaggacgc gcagctggag cccgcgcaca tctccccggc catcccggtc  
 181 atcatcacgg cggctctactc cgtagtgttc gtcgtgggct tgggtgggcaa ctgcgtggtc

241 atgttcgtga tcatccgata cacaaagatg aagacagcaa ccaacattta catatttaac  
 301 ctggcttttg cagatgcttt agttactaca accatgccct ttcagagtac ggtctacttg  
 361 atgaattcct ggcccttttg ggatgtgctg tgcaagatag taatttccat tgattactac  
 421 aacatgttca ccagcatctt caccttgacc atgatgagcg tggaccgcta cattgccgtg  
 481 tgccaccccg tgaaggcttt ggacttccgc acacccttga aggcaaagat catcaatata  
 541 tgcactctggc tgctgtcgtc atctgttggc atctctgcaa tagtccttgg aggcacaaaa  
 601 gtcaggggaag acgtcgatgt cattgagtgc tccttgagcgt tcccagatga tgactactcc  
 661 tgggtgggacc tcttcatgaa gatctgcgtc ttcactcttg ccttcgtgat cctgtcctc  
 721 atcatcatcg tctgtctacac cctgatgac ctgcgtctca agagcgtccg gctcctttct  
 781 ggctcccagag agaaagatcg caacctgcgt aggatcacca gactggctct ggtggtggtg  
 841 gcggtgttcg tctgtctgctg gactccatt cacatattca tcctgggtgga ggctctgggg  
 901 agcacctccc acagcacagc tgctctctcc agctattact tctgcatggc cttaggctat  
 961 accaacagta gctgaatcc cattctctac gcctttcttg atgaaaagt caagcgggtg  
 1021 ttccgggact tctgctttcc actgaagatg aggatggagc ggcagagcac tagcagagtc  
 1081 cgaaatacag ttcaggatcc tgcttacctg agggacatcg atgggatgaa taaaccagta  
 1141 tgactagtcg tgga

FIGURE 7 AND SEQ ID NO:7

C846T polymorphism of hKOR

1 atggactccc cgatccagat ctcccgggg gagccgggccc ctacctgcgc cccgagcgcc  
 61 tgcttgcctc ccaacagcag cgcttggttt cccggctggg cccagcccga cagcaacggc  
 121 agcgccggct cggaggagcg gcagctggag cccgcgcaca tctcccggc catcccggc  
 181 atcatcacgg cggctacttc cgtagtgttc gtctgggct tgggtgggcaa ctctgtggtc  
 241 atgttcgtga tcatccgata cacaaagatg aagacagcaa ccaacattta catatttaac  
 301 ctggcttttg cagatgcttt agttactaca accatgccct ttcagagtac ggtctacttg  
 361 atgaattcct ggcccttttg ggatgtgctg tgcaagatag taatttccat tgattactac  
 421 aacatgttca ccagcatctt caccttgacc atgatgagcg tggaccgcta cattgccgtg  
 481 tgccaccccg tgaaggcttt ggacttccgc acacccttga aggcaaagat catcaatata  
 541 tgcactctggc tgctgtcgtc atctgttggc atctctgcaa tagtccttgg aggcacaaaa  
 601 gtcaggggaag acgtcgatgt cattgagtgc tccttgagcgt tcccagatga tgactactcc  
 661 tgggtgggacc tcttcatgaa gatctgcgtc ttcactcttg ccttcgtgat cctgtcctc  
 721 atcatcatcg tctgtctacac cctgatgac ctgcgtctca agagcgtccg gctcctttct  
 781 ggctcccagag agaaagatcg caacctgcgt aggatcacca gactggctct ggtggtggtg  
 841 gcaagtgttc tctgtctgctg gactccatt cacatattca tcctgggtgga ggctctgggg  
 901 agcacctccc acagcacagc tgctctctcc agctattact tctgcatggc cttaggctat  
 961 accaacagta gctgaatcc cattctctac gcctttcttg atgaaaagt caagcgggtg  
 1021 ttccgggact tctgctttcc actgaagatg aggatggagc ggcagagcac tagcagagtc  
 1081 cgaaatacag ttcaggatcc tgcttacctg agggacatcg atgggatgaa taaaccagta  
 1141 tgactagtcg tgga